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(54) **Crossing traffic depiction in an itp display**

(57) Provided are methods and systems for the disambiguation of an in trail procedure (ITP) vertical display by calculating and rendering symbology on a plan view traffic collision avoidance system (TCAS) display. The symbology represents an intersection point between the ground track of an ITP aircraft and the ground track of a blocking aircraft and further represents an association between the intersection point and the respective ITP blocking aircraft.

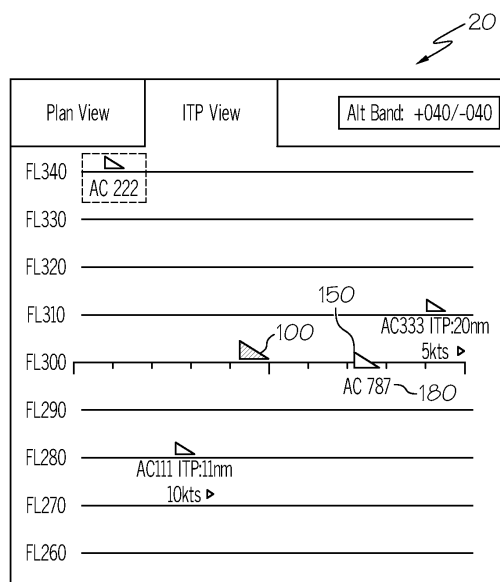


FIG. 2B



EUROPEAN SEARCH REPORT

 Application Number
 EP 11 16 2737

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2007/299611 A1 (WINKLER FALK [FR] ET AL) 27 December 2007 (2007-12-27) * paragraphs [0002] - [0006], [0007] - [0032], [0042] - [51121]; figures 1,2,5, 6 *	1-11	INV. G01C23/00 G08G5/00
A	US 2004/239529 A1 (TRAN MY [US]) 2 December 2004 (2004-12-02) * paragraphs [0028], [0037]; figure 11 *	1-11	
A	EP 1 956 342 A1 (HONEYWELL INT INC [US]) 13 August 2008 (2008-08-13) * paragraphs [0004], [0070] - [0076]; figures 5, 7 *	1-11	
A	EP 2 161 196 A1 (THALES SA [FR]) 10 March 2010 (2010-03-10) * paragraphs [0030] - [0035]; figure 4 *	1-11	
A	US 7 570 178 B1 (WHALEN DONALD J [US] ET AL) 4 August 2009 (2009-08-04) * column 3, line 10 - column 5, line 37; figures 1,2 *	1-11	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			G01C G08G
Place of search		Date of completion of the search	Examiner
The Hague		7 September 2012	Pariset, Nadia
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

 2
 EPO FORM 1503 03.02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 16 2737

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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07-09-2012

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007299611 A1	27-12-2007	FR 2897976 A1 US 2007299611 A1	31-08-2007 27-12-2007
US 2004239529 A1	02-12-2004	AT 365359 T DE 602004007133 T2 EP 1627371 A1 US 2004239529 A1 WO 2004107291 A1	15-07-2007 21-02-2008 22-02-2006 02-12-2004 09-12-2004
EP 1956342 A1	13-08-2008	EP 1956342 A1 JP 2008217775 A US 2007182589 A1	13-08-2008 18-09-2008 09-08-2007
EP 2161196 A1	10-03-2010	AT 516576 T EP 2161196 A1 FR 2935825 A1 US 2010060511 A1	15-07-2011 10-03-2010 12-03-2010 11-03-2010
US 7570178 B1	04-08-2009	NONE	